APR 2 1 2000

Date Mailed: April 18, 2000





FORM 1449\*
INFORMATION DISCLOSURE STATEMENT

IN AN APPLICATION

Docket Number:
CEDAR 043453

Applicant: Keith L. Black and Nagendra S. Ningaraj

(Use several sheets if necessary) Filling Date: Jan. 26, 2000 Group Art Unit: 16463 / 1632

**U.S. PATENT DOCUMENTS** DOCUMENT NO. DATE NAME **CLASS SUBCLASS FILING DATE EXAMINER** IF APPROPRIATE INITIAL 05/12/92 Malfroy-Camine 5,112,596 NEC 424 9.1 175.1 06/23/92 424 5,124,146 Neuwelt Murphy et al. 217.11 5,215,985 06/01/93 514 08/10/93 449 5,234,947 Cherksey 514 422 10/26/93 Grover et al. 5,256,688 514 5,262,419 11/16/93 Aberg et al. 514 275 12/07/93 Kozarich et al. 5,268,164 424 1.11 5,314,887 05/24/94 Aldrich et al. 514 252.18 5,399,587 03/21/95 Garcia et al. 514 451 5,416,097 05/16/95 Erhardt et al. 514 <u>320</u> 07/18/95 Black 5,434,137 514 15 06/18/96\* Friden 178.1 5,527,527 424 5,527,778 06/18/96\* **Black** 15 514 11/26/96 514 275 5,578,599 Diani et al. 5,604,198 02/18/97 Poduslo et al. 514 6 5,670,477 09/23/97 Poduslo et al. 514 5,677,344 10/14/97 Greenfield et al. 514 592 D'Alonzo et al. 5,679,706 10/21/97 514 456 5,686,416 11/11/97\* Kozarich et al. 514 15 5,695,751 12/09/97 Friedman et al. 94.4 424 544 06/02/98 Schohe-Loop et al. 284 5,760,230 02/09/99 Romine et al. 514 364 5,869,509 07/13/99 312 5,922,735 Sit et al. 514 **FOREIGN PATENT DOCUMENTS** DOCUMENT NO. **CLASS** SUBCLASS DATE COUNTRY **TRANSLATION** YES NO

EXAMINER DATE CONSIDERED 6/16/00

April 18, 2000





Sheet 2 of 5

FORM 1449\*
INFORMATION DISCLOSURE STATEMENT

Docket Number:
CEDAR 043453

Application Number:
09/491,500

IN AN APPLICATION

(Use several sheets if necessary)

Applicant: Keith L. Black and Nagendra S. Ningara

Filing Date: Jan. 26, 2000 Group Art Unit: 1632

APR 2 1 2001

			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
<u></u>		ОТ	THER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Dby		1.	Adeagbo, A.S., 1-Ethyl-2-benzimidazolinone stimulates endothelial K(Ca) channels and mitric oxide formation in rat mesenteric vessels, Eur. J./ Pharmacol, 379(2-3):151-9 (August 27, 1999). ABSTRACT ONLY.
		2.	Akar, F., et al., Protective effect of cromakalim and diazoxide, and proulcerogenic effect of glibenclamide on indomethacin-induced gastric injury, Eur. J. Pharmacol, 374(3):461-70 (June 25, 1999). ABSTRACT ONLY.
		3.	Andrade, S.P., et al., <i>Pharmacological reactivity of neoplastic and non-neoplastic associated neovasculature to vasoconstrictors</i> , Int. J. Exp. Pathol, 79(6):425-32 (December 1998). ABSTRACT ONLY.
		4.	Brian, J.E., Jr., et al., Recent insights into the regulation of cerebral circulation, Clin. Exp. Pharmacol Physiol, 23(6-7):449-57 (June-July 1996). ABSTRACT ONLY.
`		5. /	Brismar, T., et al., <i>Mechanism of high K+ and TI+ uptake in cultured human glioma cells</i> , <u>Cell Mol. Neurobiol</u> , 15(3):351-60 (June 1995). ABSTRACT ONLY.
		6.	Brismar, T., et al., <i>Thallium-201 uptake relates to membrane potential and potassium permeability in human glioma cells</i> , <u>Brain Res.</u> , 500(1-2):30-6 (October 23, 1989).  ABSTRACT ONLY.
		7.	Burg, M.A., et al., <i>NG2 proteoglycan-binding peptides target tumor neovasculature</i> , <u>Cancer Res.</u> , 59(12):2869-74 (June 15, 1999). ABSTRACT ONLY.
		8. /	Burrows, F. J., et al., Eradication of large solid tumors in mice with an immunotoxin directed against tumor vasculature, Proc. Natl. Acad. Science U.S.A., 90(19):8996-9000 (October 1, 1993). ABSTRACT ONLY.
	·	9. /	Butt, A.M., Effect of inflammatory agents on electrical resistance across the blood-brain barrier in pial microvessels of anaesthetized rats, Brain Res., 696(1-2):145-50 (October 23, 1995). ABSTRACT ONLY.
		10.	Butt, A.M., et al., Effect of histamine and antagonists on electrical resistance across the blood-brain barrier in rat brain-surface microvessels, Brain Res., 569(1):100-5 (January 8, 1992). ABSTRACT ONLY.
		11.	Cai, S., et al., Single-channel characterization of the pharmacological properties of the K(Ca2+) channel of intermediate conductance in bovine aortic endothelial cells, J. Membr. Biol., 163(2):147-58 (May 15, 1998). ABSTRACT ONLY.
		12. /	Chang, S.S., et al., Five different anti-prostate-specific membrane antigen (PSMA) antibodies confirm PSMA expression in tumor-associated neovasculature, Cancer Res., 59(13):3192-8 (July 1, 1999). ABSTRACT ONLY.
		13.	Chaplin, D.J., et al., <i>Anti-vascular approaches to solid tumour therapy: evaluation of combretastatin A4 phosphate</i> , <u>Anticancer Res.</u> , 19(1A):189-95 (JanFeb. 1999). ABSTRACT ONLY.

EXAMINER DATE CONSIDERED 6/16/00





FORM 1449* INFORMATION DISCLOSURE STATEMENT	Docket Number: CEDAR 043453	Application Number: 09/491,500
IN AN APPLICATION	Applicant: Keith L. Black and Nagendra S, Ningaraj E	
(Use several sheets if necessary)	Filing Date: Jan. 26, 2000	Group Art Unit: 4646- /6,3%

APR 2 1 2000 Chassande, O., et al., The Na+/K+/Cl- cotransport in C6 glioma cells, Provinces and roll in 14. DAN volume regulation, Eur. J. Biochem., 171(3):425-33 (February 1, 1988). ABSTACTION NLY. 15. Chess-Williams, R., et al., In vitro investigation of the bladder-vascular selectivity of levcromakalim and YM934 in human tissues, BJU Int., 83(9):1050-4 (June 1999). ABSTRACT ONLY. Dark, G.G., et al., Combretastatin A-4, an agent that displays potent and selective toxicity 16. toward tumor vasculature, Cancer Res., 57(10):1829-34 (May 15, 1997). ABSTRACT ONLY. 17. Denekamp, J., et al., Vasculature and microenvironmental gradients: the missing links in novel approaches to cancer therapy? Adv. Enzyme Regul., 38:281-99 (1998). ABSTRACT ONLY. 18. Desai, S.B., et al., Tumor angiogenesis and endothelial cell modulatory factors, J. Immunother, 22(3):186-211 (May 1999). ABSTRACT ONLY. 19. D'hahan, N., et al., A transmembrane domain of the sulfonylurea receptor mediates activation of ATP-sensitive K(+) channels by K(+) channel openers, Mol. Pharmacol, 56(2):308-15 (August 1999). ABSTRACT ONLY. 20. Duda, T., Mutations in the Rod Outer Segment Membrane Guanylate Cyclase in a Cone-Rod Dystrophy Cause Defects in Calcium Signaling, Biochemistry, 38(42):13912-13919 (October 19, 1999). ABSTRACT ONLY. 21. Faraci, F.M., et al., Responses of cerebral arterioles to N-methyl-D-aspartate and activation of ATP-sensitive potassium channels in old rats, Brain Res., 654(2):349-51 (August 22, 1994). ABSTRACT ONLY. 22. Faraci, F.M., et al., Potassium channels and the cerebral circulation, Clin. Exp. Pharmacol Physiol, 23(12):1091-5 (December 1996). ABSTRACT ONLY. 23. / Friebe, A., et al., Mechanism of YC-1-induced activation of soluble guanylyl cyclase, Mol. Pharmacol, 53(1):123-7 (January 1998). ABSTRACT ONLY. Goldstein, G. W., et al., In vitro studies of the blood-brain barrier using isolated brain 24. capillaries and cultured endothelial cells, Ann. N.Y. Acad. Science, 481:202-13 (1986). ABSTRACT ONLY. Harland, S. P., et al., Expression of enthothelin(A) receptors in human gliomas and 25. meningiomas, with high affinity for the selective antagonist PD156707, Neurosurgery, 43(4):890-8; discussion 898-9 (October 1998). ABSTRACT ONLY. 26. Holland, M., et al., Effects of the BKCa channel activator, NS1619, on rat cerebral artery smooth muscle, Br. J. Pharmacol, 117(1):119-29 (January 1996). ABSTRACT ONLY. 27. Jain, R. K., Vascular and interstitial barriers to delivery of therapeutic agents in tumors. Cancer Metastasis Rev., 9(3):253-66 (November 1990). ABSTRACT ONLY. 28. Keep, R. F., et al., Potassium transport at the blood-brain and blood-CSF barriers, Adv. Exp. Med. Biol., 331:43-54 (1993). ABSTRACT ONLY.

EXAMINER	DI	DATE CONSIDERED	\$/11/00

April 18, 2000





Sheet 4 of 5

FORM 1449* INFORMATION DISCLOSURE STATEMENT	Docket Number: CEDAR 043453	Application Number: 09/491,500
IN AN APPLICATION	Applicant: Keith L. Black and	Nagendra S. Ningara
(Use several sheets if necessary)	Filing Date: Jan. 26, 2000	Group Art Unity 1946 1632

		APR 2 1 2000.
JAN .	29.	Konoshita, H., et al., Differential effects of lidocaine and mexiletine on relaxations to ATP-sensitive K+ channel openers in rat aortas, Anesthesiology, 90(4):1165-70 (April 1999).  ABSTRACT ONLY.
	30.	Kitazono, T., et al., <i>Role of potassium channels in cerebral blood vessels</i> , <u>Stroke</u> , 26(9):1713-23 (September 1995). ABSTRACT ONLY.
	31.	Lee, Y.S., et al., In vitro antitumor activity of cromakalim in human brain tumor cells, Pharmacology, 49(2):69-74 (August 1994). ABSTRACT ONLY.
	32.	Manor, D., et al., Interactions among calcium compartments in C6 rat glioma cells; involvement of potassium channels, J. Physiol. (Lond.), 478(Pt.2):251-63 (July 15, 1994). ABSTRACT ONLY.
	33.	Miller, T.R., et al., <i>Pharmacological and molecular characterization of ATP-sensitive K+channels in the TE671 human medulloblastoma cell line</i> , <u>Eur. J. Pharmacol</u> , 370(2):179-85 (April 9, 1999). ABSTRACT ONLY.
	34/	Molema, G., et al., <i>Tumor vascular endothelium: barrier or target in tumor directed drug delivery and immunotherapy</i> , <u>Pharm. Res.</u> , 14(1):2-10 (January 1997). ABSTRACT ONLY.
	35.	O'Donnell, M.E. et al., Cerebral microvascular endothelial cell Na-K-Cl cotransport: regulation by astrocyte-conditioned medium, Am. J. Physiol., 268(3 Pt. 1):C747-54 (March 1995). ABSTRACT ONLY.
	36.	Ohizumi, I., et al., <i>Antibody-based therapy targeting tumor vascular endothelial cells suppresses solid tumor growth in rats</i> , <u>Biochem Biophys. Res. Commun.</u> , 236(2):493-6 (July 18, 1997). ABSTRACT ONLY.
	37. /	Ohta, Y., et al., <i>Tumor angiogenesis and recurrence in stage I non-small cell lung cancer</i> , Ann. Thorac. Surg., 68(3):1034-8 (September 1999). ABSTRACT ONLY.
	38.	Panchal, R.G., Novel therapeutic strategies to selectively kill cancer cells, Biochem Pharmacol., 55(3):247-52 (February 1, 1998). ABSTRACT ONLY.
	39. /	Patel, H.J., et al., <i>Inhibition of cholinergic neurotransmission in guinea pig trachea by NS1619, a putative activator of large-conductance, calcium-activated potassium channels</i> , <u>J. Pharmacol. Exp. Ther.</u> , 286(2):952-8 (August 1998). ABSTRACT ONLY.
·	40.	Ran, S., et al., Infarction of solid Hodgkin's tumors in mice by antibody-directed targeting of tissue factor to tumor vasculature, Cancer Res., 58(20):4646-53 (October 15, 1998). ABSTRACT ONLY.
	41.	Redrobe, J.P., et al., <i>The effect of the potassium channel activator, cromakalim, on antidepressant drugs in the forced swimming test in mice</i> , <u>Fundam. Clin. Pharmacol.</u> , 10(6):524-8 (1996). ABSTRACT ONLY.
	42.	Rettig, W.J., et al., <i>Identificatgion of endosialin, a cell surface glycoprotein of vascular endothelial cells in human cancer</i> , <u>Proc. Natl. Acad. Sci. U.S.A.</u> , 89(22):10832-6 (November 15, 1992). ABSTRACT ONLY.

EXAMINER	DATE CONSIDERED	6/16/00	•





FORM 1449* INFORMATION DISCLOSURE STATEMENT	Docket Number: CEDAR 043453	Application Number: 09/491,500
IN AN APPLICATION	Applicant: Kelth L. Black and	Nagendra S. Ningarai PE
(Use several sheets if necessary)	Filing Date: Jan. 26, 2000	Group Art Unit: 1648 1632

		APR Z 1
DPN	43. /	Revest, P.A., et al., The transendothelial DC potential of rat blood-brain barrier basels in situ, Adv. Exp. Med. Biol., 331:71-4 (1993). ABSTRACT ONLY.
	44.	Revest, P.A., et al., <i>Transendothelial electrical potential across pial vessels in anaesthetised rats: a study of ion permeability and transport at the blood-brain barrier, Brain Res.</i> , 652(1):76-82 (July 25, 1994). ABSTRACT ONLY.
	45.	Sandstrom, P.E., et al., Identification of potassium flux pathways and their role in the cytotoxicity of estramustine in human malignant glioma, prostatic carcinoma and pulmonary carcinoma cell lines, Eur. J. Cancer, 30A(12):1822-6 (1994). ABSTRACT ONLY.
	46.	Schilling, L., et al., Opening of the blood-brain barrier during cortical superfusion with histamine, Brain Res., 653(1-2):289-96 (August 8, 1994). ABSTRACT ONLY.
	47.	Serfass, L., et al., Effect of heme oxygenase inhibitors on soluble guanylyl cyclase activity, Arch. Biochem. Biophys., 359(1):8-16 (1998). ABSTRACT ONLY.
	48.	Sobey, C.G., et al., Mechanisms of bradykinin-induced cerebral vasodilatation in rats.  Evidence that reactive oxygen species activate K+ channels, Stroke, 28(11):2290-4; discussion 2295 (November 1997). ABSTRACT ONLY.
	49.	Smoak, I.W., Cromakalim: embryonic effects and reduction of tolbutamide-induced dysmorphogenesis in vitro, Teratology, 60(5):260-264 (November 1999). ABSTRACT ONLY.
	50. /	Sugai, K. et al., Levcromakalim decreases cytoplasmic Ca2+ and vascular tone in basilar artery of SAH model dogs, J. Cardiovasc. Pharmacol., 33(6):868-75 (June 1999). ABSTRACT ONLY.
	51.	Teramoto, N. et al., Comparative studies on the relaxing action of several adenosine 5'-triphosphate-sensitive K+ channel openers in pig urethra, J. Smooth Muscle Res., 35(1):11-22 (February 1999). ABSTRACT ONLY.
	52.	Thorpe, P. E. et al., Antibody-directed targeting of the vasculatlure of solid tumors, Breast Cancer Res. Treat., 36(2):237-51 (1995). ABSTRACT ONLY.
	53. /	Toyoda, K. et al., Role of ATP-sensitive potassium channels in brain stem circulation during hypotension, Am. J. Physiol., 273(Pt. 2):H1342-6 (September 1997). ABSTRACT ONLY.
	54. /	Van Hinsbergh, V. W. et al., <i>Angiogenesis and anti-angiogenesis: perspectives for the treatment of solid tumors</i> , <u>Ann. Oncol.</u> , 10 Supl 4:60-3 (1999). ABSTRACT ONLY.
	55.	Walter, J. J. et al., Angiostatin binds to smooth muscle cells in the coronary artery and inhibits smooth muscle cell proliferation and migration In vitro, Arterioscler. Throm. Vasc. Biol., 19(9):2041-8 (September 1999).
	56.	Wickenden, A.D. et al., Comparison of the effects of the K(+)-channel openers cromakalim and minoxidil sulphate on vascular smooth muscle, Br. J. Pharmacol., 103(1):1148-52 (May 1991). ABSTRACT ONLY.

EXAMINER	DATE CONSIDERED	6/16/00